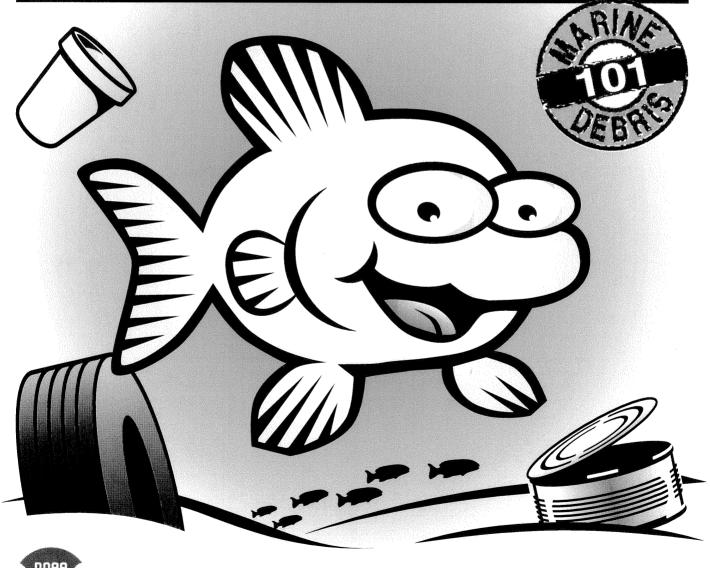
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**GAMES & ACTIVITIES FOR KIDS OF ALL AGES** 





NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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## TABLE OF CONTENTS



- 1 Marine Debris Word Find 13 Million Pounds?!
- 2 Picture CrosswordTypes of Marine Debris
- 3 Coloring Activity
  Healthy Coral Reef
- 4 Identifying the Problem

  The Source of the Problem
- 5 Which One Is Different? Litterless Lunches
- 6 Coloring Activity
  Go Fish!
- 7 Secret CodeLearn to Be a Drain Brain!
- 8 Word Challenge Beat the Clock!
- 9 Coloring Activity
  A Day at the Beach!
- 10 Marine Debris Match Up How Long Will it Take?

- 11 Coloring Activity
  Sailing Away
- 12 Memory Game
  Marine Match-Up
- 13 Connect the Dots
  A Sea Turtle's Story
- 14 Littering Checklist
  No Excuses
- 15 Coloring Activity
  Beach Cleanup
- 16 Unscramble the Phrase How Can I Help?
- 17 A Silly Story

  Cleaning Up the Beach
- **18** Coloring Activity **Diver Cleanup**
- 19 Marine Debris Maze

  Getting to the Trash Can
- 20 Debris Detective
  The Three Rs of Good
  Stewardship
- 21 ANSWER KEY

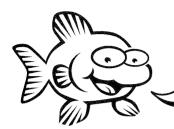
### Making photocopies of the activities is recommended

The production of this educational document was provided with support from the National Oceanic and Atmospheric Administration's Marine Debris Program and was developed by Sheavly Consultants through Contract Project Number AB133F06CN0193, "Web-based Education Campaign for Marine Debris Awareness & Prevention."

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# 13 Million Pounds?





It is estimated that 13 million pounds of litter are put into the ocean each year.\* This litter is generated by many sources, from boats and oil rigs on the water to picnickers, fisherman, and beachgoers along the shore. Hidden below is a list of objects that have been discarded into our oceans. See if you can find them all!

N S B H E 0 R G E N E U T C R R N R K R U C N Α K G T D A K M S A E R D N 0 A B S Н W E T D W T 0 E B Α S G R R H 0 H N D N 0 W S B T T E P H A 0 L C T T B K S J B U R Υ G U P E R L Α D D O G ı G R E T T E U T P E 0 E E N X 0 H B S N S В H N G N E H M

These hidden words are found horizontally, vertically and diagonally. (Answers on page 21).

BAIT CONTAINER BALLOON

BUCKET BUOY

BUOY CIGARETTE CRATE CUP

DIAPER DOLL

FISHING LINE

FISHING NET

GLASS BOTTLE GLOVE HARD HAT HOSE LUMBER PAINT BRUSH RADIO

RADIO ROPE RUG SHOE

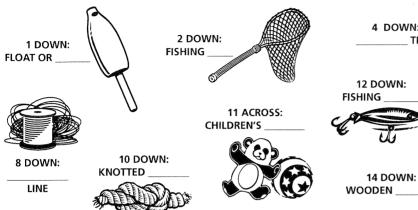
SODA CAN STRAW TIRE

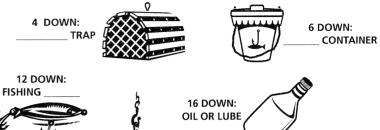
TRASH BAG

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# Types of Marine Debris







17 DOWN: CRAB

## **MARINE DEBRIS COMES** FROM MANY SOURCES

#### **ACROSS:**

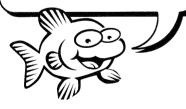
These litter items are generated by people on land such as beachgoers, picnickers and those who improperly dump their trash.

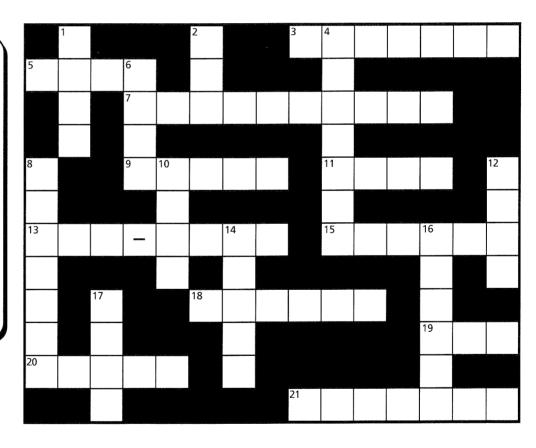
#### DOWN:

These litter items are generated by people at sea such as boaters, fisherman and passengers on cargo or cruise ships.

### **PARENTS CAN HELP!**

(Answers on page 21)











7 ACROSS: TIRE











18 ACROSS: MILK







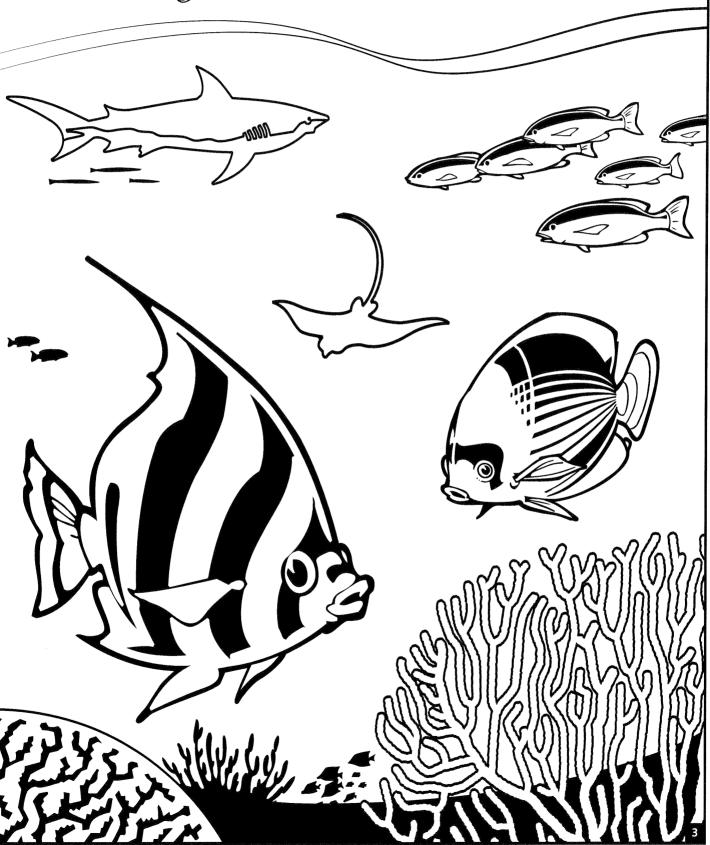


COLORING ACTIVITY

www.marinedebris.noaa.gov

# Healthy Coral Reef





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# The Source of the Problem

**PARENTS CAN HELP!** 

There are nine pictures below. Circle the pictures which you believe could be sources of marine debris or ocean trash. When you have finished, write down what these pictures have in common. Answers on page 21.









A SHARK



**PICNICKERS** 



A FISH



A MAN WASHING HIS CAR



**DOLPHINS** 



A FISHERMAN



SEA GULLS



A BEACHGOER

## **Litterless Lunches**

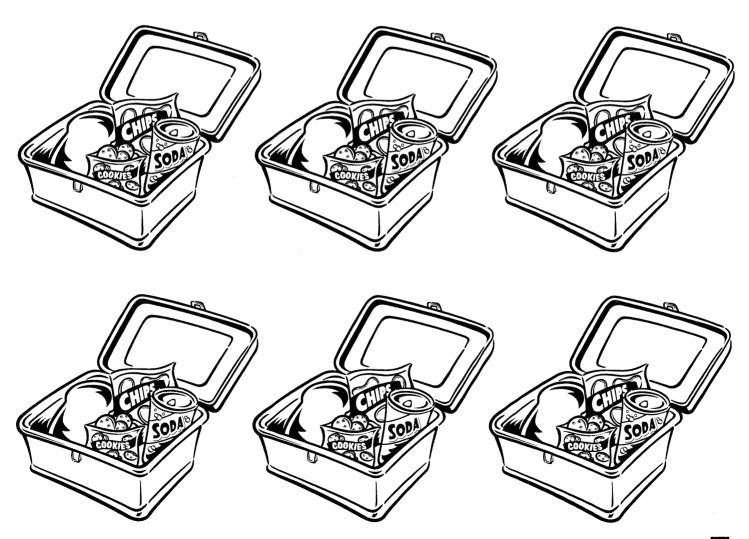


There are six packed lunches pictured.
One of them is different from all the others. Can you find the one that is different?



Many kids carry a packed lunch to school. Food packaging can create a lot of trash every year. Here are some ways to reduce the amount of trash generated by a packed lunch.

- ◆ Reduce the amount of food packaging needed. When planning your packed lunches, instead of buying 12 individual bags of cookies, you can buy one larger bag of cookies and divide it into serving sized portions in reusable containers.
- ◆ Reusable plastic containers can store cookies, chips and just about everything else you find in a packed lunch. These containers can be brought home, washed and used again.
- ◆ **Always recycle** the aluminum cans, glass bottles, plastic bottles and plastic containers found in your packed lunch.



www.marinedebris.noaa.gov Go Fish!

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## Learn to Be a Drain Brain!

## Unlock the Secret Message and Discover How You Can Become a Drain Brain!

Have you ever wondered what those holes are at the edge of the sidewalk? They're called **storm drains** and they carry rain water off the street and into streams and rivers.

Soda bottles, paper cups, candy wrappers, cigarette butts and all of the trash in the street gets carried into storm drains with the rain water until it finally reaches the ocean and becomes debris.

Unlock the secret message by using the chart below to replace the shapes with the letters they match up with.









$$\star = I$$

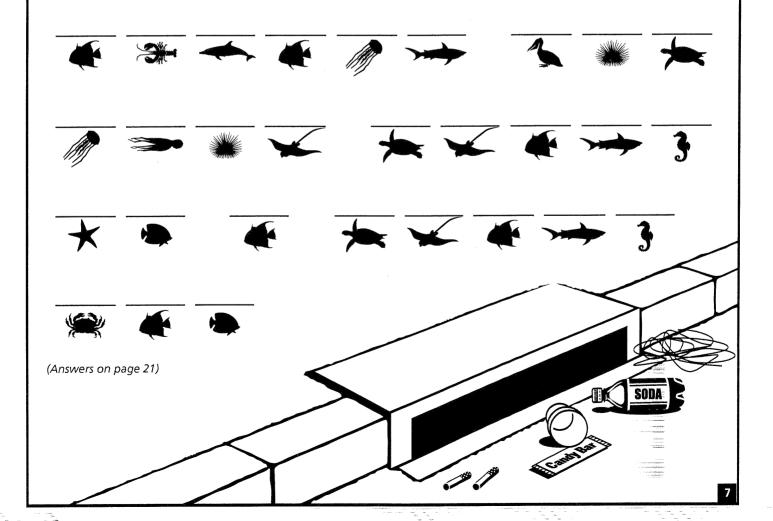


$$= T$$

$$= N$$

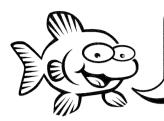
$$= P$$

$$= Y$$



# Beat the Clock!



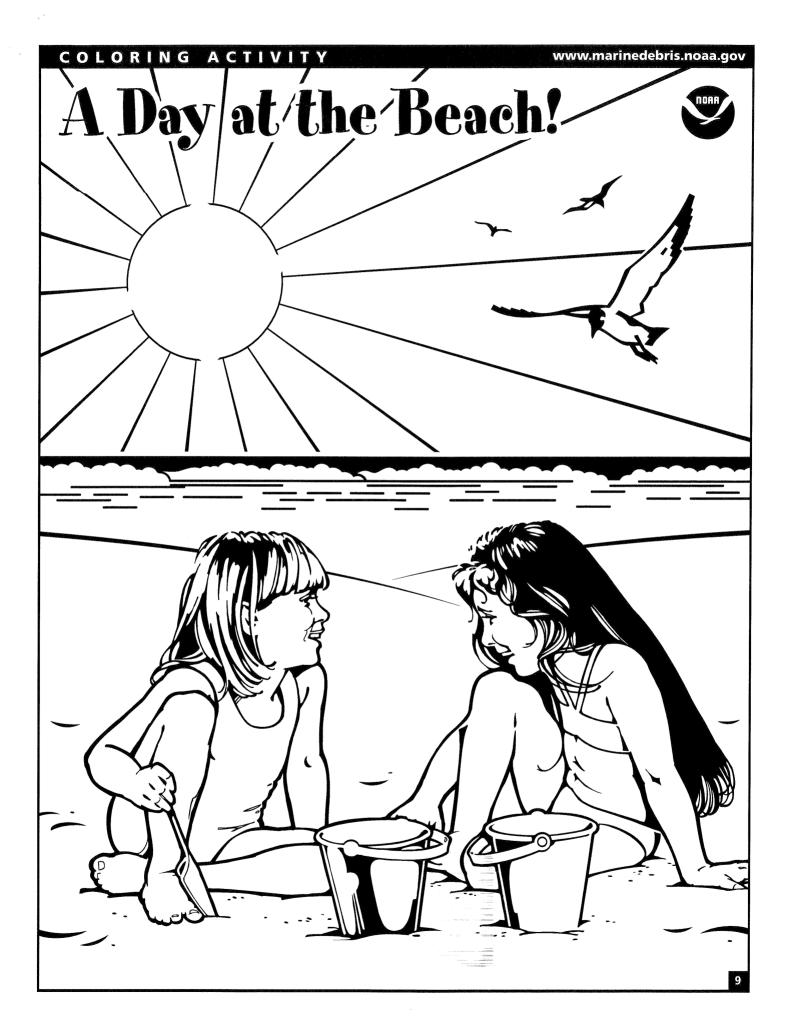


Find a friend and see which one of you can list the most number of new words created by using the letters found in the words **MARINE DEBRIS.** Set a timer for 10 minutes. The person with the most number of words WINS! See rule about using double letters.

MARINE DEBRIS contains two "R"s, two "E"s, and two "I"s. It is acceptable for your new words to contain **these** double letters.

Example: N E E D	13.)	27.)
Example: <b>B A R N</b>	14.)	28.)
1.)	15.)	29.)
2.)	16.)	30.)
3.)	17.)	31.)
4.)	18.)	32.)
5.)	19.)	33.)
6.)	20.)	34.)
7.)	21.)	35.)
8.)	22.)	36.)
9.)	23.)	37.)
10.)	24.)	38.)
11.)	25.)	39.)
12.)	26.)	40.)

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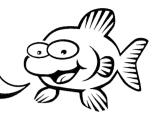


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# How Long Will it Take?



It takes just a moment for an item to be carelessly discarded or blown by wind into the ocean, but it can take many, many years for that item to completely decompose. Test your knowledge about decomposition times. Draw a line between each item (left) to its corresponding decomposition time (right).



## How Many Years Will it Take for These Items to Decompose in the Ocean?



**Fishing Line** 



**Cigarette Filter** 





**Aluminum Can** 

Milk Carton



**Glass Bottle** 



banana ree





200 Years

50 Years









Styrofoam Cup



Z-6 We



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# Marine Match-Up



What do you think happens when an animal comes across litter in its natural habitat?

A sea turtle can choke on a plastic sandwich bag that it mistakes for food. A curious sea lion can get entangled in discarded commercial fishing nets.

Play the MARINE MATCH-UP game to learn more about how litter harms marine animals.

A beaver can get

its head stuck in a tin can

### **HOW TO PLAY** (FOR TWO PLAYERS)

- 1.) Cut out the squares and place them face down.
- 2.) Player 1 turns over two squares.

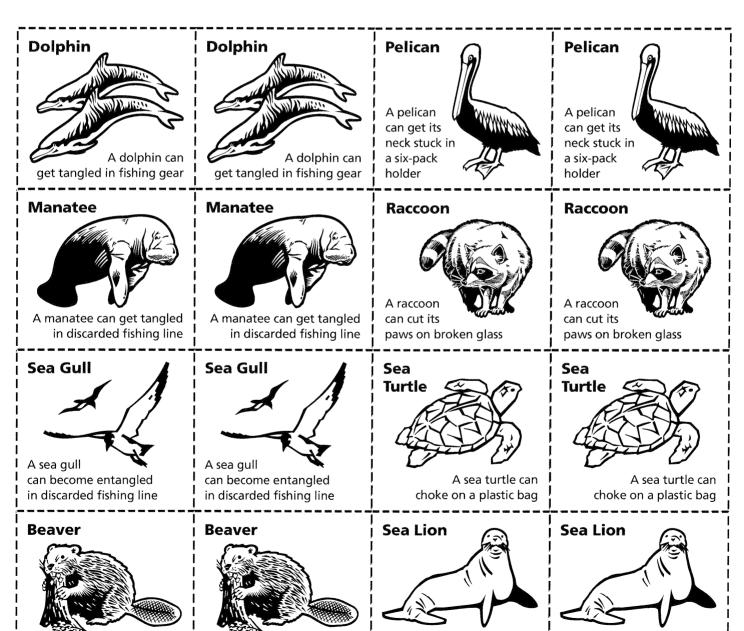
A sea lion can become

entangled in ropes and nets

A sea lion can become

entangled in ropes and nets

- 3.) If a match is revealed, the player gets to keep the two squares. For example, if the player reveals two Dolphins, he gets to keep the two squares. However, if the player reveals two animals which DO NOT match, then both squares are turned face down again and Player 2 takes a turn.
- 4.) When all the squares are gone, the player with the most number of squares wins.

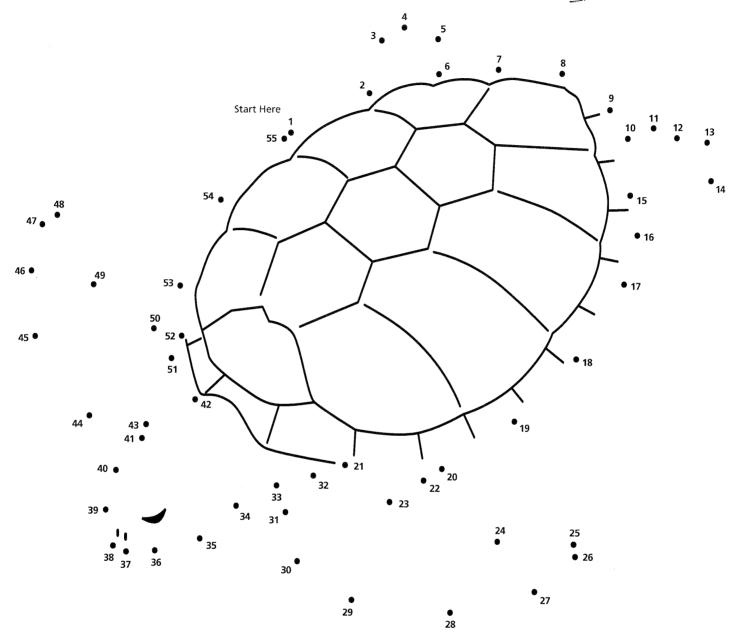


A beaver can get

its head stuck in a tin can

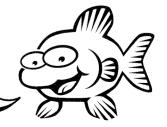
# A Sea Turtle's Story





## **How Can Litter Be Deadly to a Sea Turtle?**

Sometimes sea turtles mistake litter in the water as food. Plastic bags look like jellyfish, sea turtles' favorite food. If swallowed, debris can block digestion or remain in the turtle's stomach, causing the turtle to feel "full" and eat less than it needs to survive. Plastic or plastic foam in a turtle's stomach can cause excess buoyancy, decreasing the animal's ability to dive deeper for prey.



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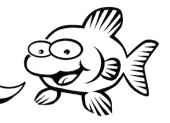
## No Excuses



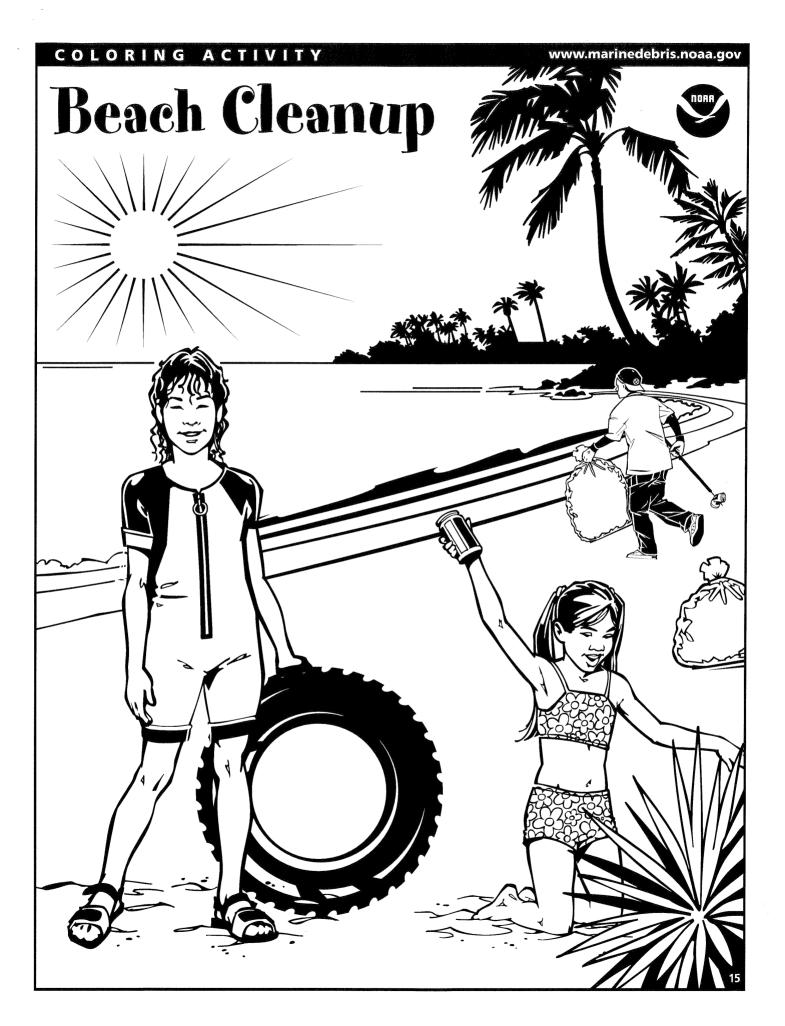
## Have you ever littered and thought you had a good reason for it?

When people litter, they sometimes think that they have a good reason for it. But there is NEVER a good excuse for littering. Take a look at the list of reasons people use for littering. Put a checkmark next to the excuses you have heard people use when they litter.

If your friends or family use these excuses, remind them that there are no good excuses for littering and ask them to throw their trash away in a trash can.



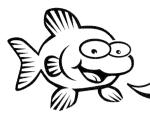
There's already trash there.	Nobody told me not to.
Why shouldn't I?	The trash can was too yucky to touch.
I don't want to mess up my back pack.	Animals will eat the apple core.
It's too hard to find a trash can.	It's so tiny, it won't matter.
Mom would get upset if she knew I ate a snack before dinner.	Bees were around the trash can.
Everyone else does it!	I saw an adult do it.
Someone else will pick it up for me.	I don't care about the beach.
It's JUST a candy wrapper.	There wasn't a sign telling me not to litter.
It's too heavy to carry.	It fell out of my pocket.



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# How Can I Help?





Beach or coastal cleanups can be found in many communities. During these cleanups, kids and adults work together to collect the trash that has been thrown into their waterways. Cleanups make the environment a cleaner, safer place for people and animals.

Unscramble the words below to reveal how you can help! Answers on page 21.

I F D N T U O F I

E H R T E S I A

L T A C S O A L A P U C E N

N I O Y R U

TCIMYOMNU

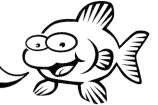


**NOUN PLURAL** 

### Cleaning Up the Beach



This is a game that can be played with two people, but we recommend playing it with a group. The READER asks each person (in turn) to call out a word until the blanks are filled in. Then the READER reads the entire silly story to the group.



		helped out al	ona witl	h		
FEMALE CELEBRITY		_ neipea oat ai	ong with		MALE PLAYER	
	AALE DI AVED	, and		MALECE	I EDDITV	
T EN	MALL FLATER			WALECE	LLBRITT	
I got the	ADJECTIVE	job of picki	ng up al	l of the	NOUN PLURAL	
and I found	NUMBER	of them		MALE PLAYER	h	ad a
ADJECT	IVE	job himself.	He wor	e gloves so	that he woul	dn't
get any	YPE OF GARBAGE	on his _	CI	LOTHING	We all ye	elled
EXC	CLAMATION!	wher	1	FEMALE PLAYE	fou	nd a
NOUN	st	uck in the sand	. But the	e most	ADJECTIVE	
piece of garbag	e we foun	d was a	NOUN	By t	he end of the	day,
we had found $\_$	NUMBER	NOUN PLURAL	NUMBER	NOUN PLURA	, and	ЛВER
		NOUN PLURAL,				

	·		

## Diver Cleanup

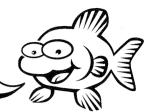


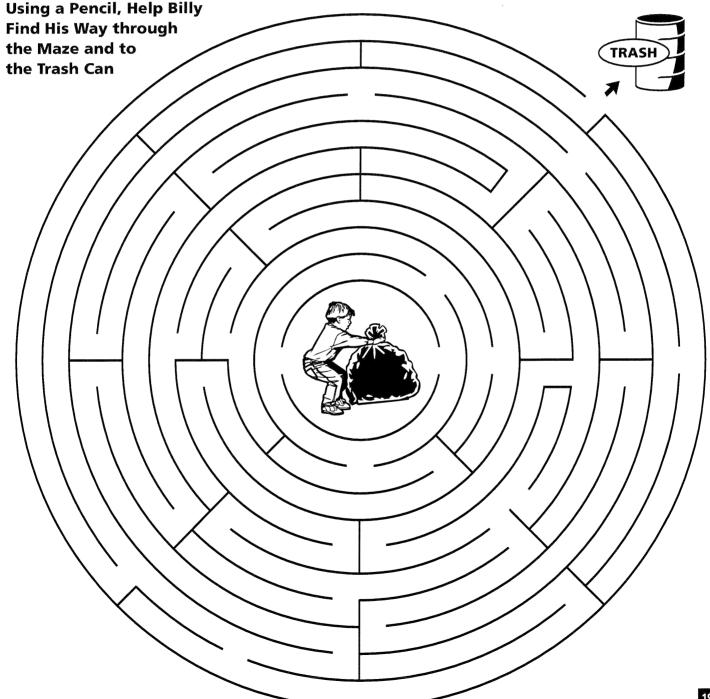


## Getting to the Trash Can



Sometimes it takes a couple more steps to get to a trash can where you can properly discard your trash. But these extra steps will make you a good steward of the environment. Always put your trash in a trash can and always look for recycling bins for your glass, plastics, cardboard, metals and newspapers.



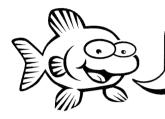


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# The Three Rs of Good Stewardship



A good steward protects and promotes a clean, safe environment through their own actions—making our planet a place where future generations of both humans and animals will thrive.



Hidden in the phrase below are the three **most important words** to remember if you want to be a good steward of your environment. Link the missing letters in the phrase (in order) to spell out these three words. Answers on page 21.

Puchasing and rousing isposable products
lik plastic containe s, groc ry bags, foam c ps
and glans jars reduces thin amount of that we
gen rate thereby redu ing the man pieces of
litter that □an possib□y becom□ marine debris!

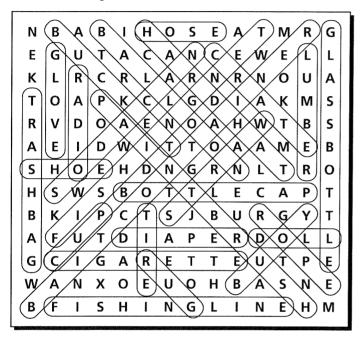
	1.	2.	3.	4.	5. 6	5.
	7.	8.	9.	10.	11.	
12.	13.	14.	15.	16.	17.	18.

#### ANSWER KEY

(Where applicable)



#### Word Find (Page 1).



#### Picture Crossword (Page 2).



#### Identifying the Problem (Page 4).

Wherever you find people, you find a potential source of marine debris. A cruise ship, picnickers, a man washing his car, a fisherman and a beachgoer are ALL potential sources of marine debris.

#### Which One is Different? (Page 5).

The lunchbox which is different is found in the center of the bottom row of lunchboxes.

#### Secret Code (Page 7).

ALWAYS PUT YOUR TRASH IN A TRASH CAN.

#### Word Challenge (Page 8).

Here is a sampling of 40 words we found: (I, a, in, is, as, me, red, bed, are, rid, arm, ear, bin, see, sin, bee, rim, rib, rind, dine, seem, bind, read, bare, darn, rain, main, need, bead, bear, rare, mine, dear, sire, beer, drain, bread, breed, inside, sardine, etc...

#### Marine Debris Match Up (Page 10).

Glass bottle = undetermined
Fishing line = 600 years
Plastic beverage bottle = 450 years
Aluminum can = 200 years
Styrofoam cup = 50 years
Cigarette filter = 1-5 years
Milk carton = 3 months
Banana peel = 2-6 weeks

#### Unscramble the Phrase (Page 16).

FIND OUT IF THERE IS A BEACH CLEANUP IN YOUR COMMUNITY.

#### Debris Detective (Page 20).

REDUCE REUSE RECYCLE





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